CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DIPLOMA IN COMPUTER SCIENCE

COSC 0100: INFORMATION TECHNOLOGY AND NATIONAL DEVELOPMENT

STREAMS: DIP. COMP SCI   Y1S1   **TIME: 2 HOURS**

DAY/DATE: TUESDAY 6/08/2019   **11.30 A.M - 1.30 P.M.**

INSTRUCTIONS:
- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, no reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.

SECTION A
QUESTION ONE (30 MARKS)
a) In regard to national development what is a National ICT Policy   [2 Marks]

b) EXPLAIN these terms:
   i.   Technology   [2 Marks]
   ii.   Digital divide   [2 Marks]
   iii.   Digital village   [2 Marks]

c) What is an information society and what are its machine tools?   [4 Marks]

d) EXPLAIN the Social Shaping of technology theory and what it argues.   [4 Marks]

e) What are the FIVE KEY Sustainable Development Goals in Kenya?   [5 Marks]

f) LIST 4 computer crimes   [4 Marks]

g) STATE FIVE key challenges in implementing ICT for National development.   [5 Marks]

SECTION B (ANSWER ANY TWO QUESTIONS ONLY!!)

QUESTION TWO (20 MARKS)
a) What is Information system?   [2 Marks]
b) STATE and EXPLAIN FOUR types of Information systems.   [8 Marks]

c) As information technology becomes increasingly influential, the ethical and legal considerations become similarly relevant. EXPLAIN the FIVE most pressing ethical and legal issues today.   [10 Marks]

QUESTION THREE (20 MARKS)
a) What is E-Governance?   [4 Marks]

b) DISCUSS why has the Kenyan Government engaged in E-Governance?   [10Marks]

c) Give examples of e-government services in Kenya   [6 Marks]

QUESTION FOUR (20 MARKS)
a) Technology society and life refers to cyclical co-dependence of technology and society upon the other (technology upon culture, and vice versa). Giving Examples explain how this impacts the society.   [10 Marks]

b) Social media plays a big role in the development of national economy today. However, there are challenges involved. What are some of these negative social media challenges?
                                                                                  [10 Marks]

QUESTION FIVE (20 MARKS)
a) The government of Kenya through the pasha initiative has engaged in the digital initiative program to help bridge the digital divide in the country. Discuss what are some of the advantages that the country gains through this initiative.   [10 Marks]

b) Over the last 20 years, what are some of the contribution that IT has had in poverty reduction in sub Saharan Africa.   [10 Marks]
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